

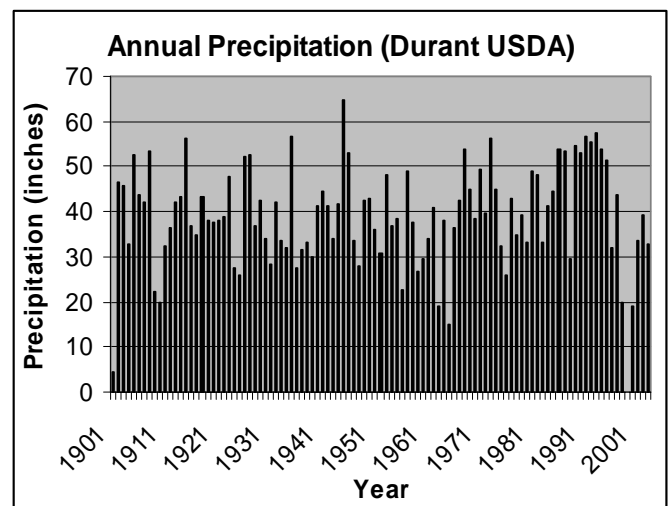
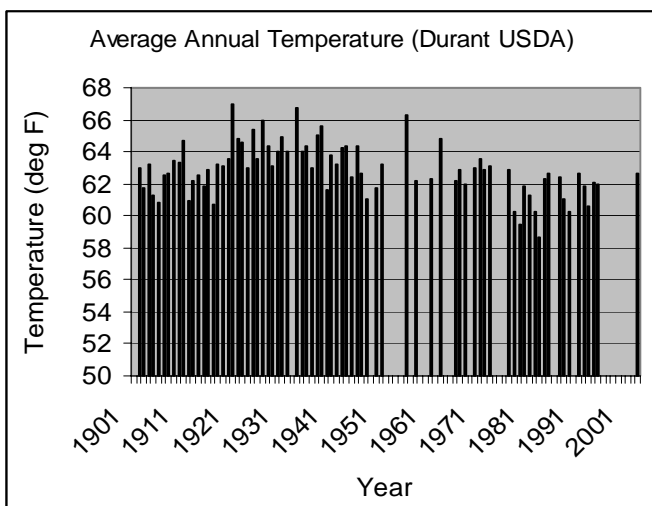
# The Climate of Bryan County

Bryan County is part of the Crosstimbers throughout most of the county. The extreme eastern portions of Bryan County are part of the Cypress Swamp and Forest. Average annual precipitation ranges from about 42 inches in southern Bryan County to 48 inches in the north. April and October are the wettest months, on average, but much of the spring through fall receives sufficient rainfall. Nearly every winter has at least one inch of snow, with one year in ten having ten or more inches.

Temperatures average near 62 degrees, with a slight increase from north to south. Temperatures range from an average daytime high of 94 degrees in July and August to an average low of 27 degrees in January. Bryan County averages a growing season of 219 days, but plants that can withstand short periods of colder temperatures may have an additional three to six weeks.

Winds from the south to southeast are quite dominant, averaging just over seven miles-per-hour. Relative humidity, on average, ranges from 42% to 94% during the day. During the year, humidity is highest in June and lowest in August. Winter months tend to be cloudier than summer months. The percentage of possible sunshine ranges from an average of about 50% in winter to nearly 75% in summer.

Thunderstorms occur on about 42 days each year, predominantly in the spring and summer. During the period 1950 - 2003, Bryan County recorded 29 tornadoes. The most recent significant tornado (F2 intensity or greater) occurred on May 11, 1992 passing near the town of Albany. Bryan County has recorded only 3 F4 tornadoes and no F5 tornadoes since 1887. Typically, there are about 3 events each year of hail exceeding one inch in diameter. As information collection improves, both the number of reported tornadoes and the number of severe hail events have increased.



Temperature (deg Fahrenheit)												
	AVERAGES (1971-2000)			EXTREMES (1901-2003)				AVG # DAYS PER MONTH (1971-2000)				
	Daily Max	Daily Min	Daily Avg	Record High		Record Low		Max>100	Max>90	Max<32	Min<32	Min<0
Jan	50.0	27.4	38.7	89	(31st, 1911)	-11	(12th, 1918)			3	22	*
Feb	56.3	32.6	44.4	93	(24th, 1918)	-4	(2nd, 1951)		*	2	14	*
Mar	65.1	41.1	53.1	99	(19th, 1907)	7	(3rd, 1943)		*	*	7	
Apr	73.8	49.5	61.6	98	(16th, 1925)	25	(5th, 1920)		1		1	
May	80.7	58.9	69.8	103	(28th, 1927)	33	(1st, 1903)		3			
Jun	88.8	66.9	77.9	112	(28th, 1980)	45	(6th, 1922)	1	15			
Jul	93.8	70.6	82.2	111	(11th, 1954)	42	(9th, 1905)	4	25			
Aug	93.7	69.2	81.5	118	(10th, 1936)	50	(28th, 1906)	5	24			
Sep	86.3	61.9	74.1	111	(2nd, 1951)	34	(27th, 1942)	1	12			
Oct	76.4	50.6	63.5	100	(1st, 1938)	16	(30th, 1917)		2		1	
Nov	62.9	39.8	51.4	88	(17th, 1952)	9	(11th, 1950)			*	8	
Dec	53.5	31.0	42.3	87	(24th, 1955)	-7	(23rd, 1989)			2	17	*
Annual	73.5	50.0	61.8	118	(Aug 10, 1936)	-11	(Jan 12, 1918)	12	83	7	70	*

Precipitation (inches)										
	AVERAGE	EXTREMES (1901-2003)			AVG # DAYS PER MONTH (1971-2000)					
	1971-2000	Monthly Max	Daily Max		any	meas	0.10"+	0.25"+	0.50"+	1.00"+
Jan	2.06"	10.36" (1932)	3.82"	(27th, 1916)	8	6	3	3	1	*
Feb	2.69"	7.89" (1945)	3.15"	(17th, 1938)	7	6	4	3	2	1
Mar	3.89"	9.83" (1990)	3.20"	(1st, 1934)	9	8	5	4	3	1
Apr	4.15"	14.30" (1957)	5.15"	(28th, 1917)	9	8	6	4	3	1
May	6.19"	12.57" (1982)	7.50"	(10th, 1993)	10	9	7	5	4	2
Jun	5.23"	12.89" (1945)	6.20"	(17th, 1945)	8	7	6	4	3	2
Jul	2.92"	10.89" (1903)	5.35"	(3rd, 1903)	6	5	4	2	2	1
Aug	2.97"	12.52" (1914)	7.40"	(17th, 1926)	6	5	4	3	2	1
Sep	4.68"	11.45" (1973)	5.80"	(6th, 1973)	8	7	5	4	3	1
Oct	4.90"	17.79" (1981)	5.35"	(31st, 1974)	8	7	5	4	3	2
Nov	3.63"	11.60" (1946)	4.14"	(19th, 1934)	8	7	5	4	2	1
Dec	3.10"	9.05" (1927)	5.83"	(13th, 1927)	7	6	4	3	2	1
Annual	46.42"	17.79" (Oct 1981)	7.50"	(May 10, 1993)	93	82	58	43	29	14

Snow and Sleet (inches)											
	AVERAGE	EXTREMES (1901-2003)				AVG # DAYS PER MONTH (1971-2000)					
	1971-2000	Monthly Max	Daily Max		Greatest Depth		any	meas	0.50"+	1.00"+	Pot. Glazing
Jan	1.0"	14.3" (1942)	9.0"	(22nd, 1940)	8.0"	(21st, 1918)	1	*	*	*	1
Feb	1.5"	18.6" (1978)	12.0"	(7th, 1979)	4.0"	(19th, 1905)	1	*	*	*	1
Mar	0.2"	8.0" (1947)	8.0"	(15th, 1947)	5.0"	(1st, 1942)	*	*	*	*	*
Apr		0.0" (1941)	0.0"	(28th, 1941)	0.1"	(16th, 1998)					
May		0.0" (1905)	0.0"	(11th, 1905)							
Jun											
Jul											
Aug											
Sep											
Oct											
Nov	0.1"	1.5" (1972)	1.0"	(21st, 1972)	1.0"	(21st, 1972)	*	*	*	*	*
Dec	0.4"	6.5" (1983)	5.5"	(16th, 1983)	4.0"	(18th, 1909)	*	*	*	*	1
Annual	3.1"	18.6" (Feb 1978)	12.0"	(Feb 7, 1979)	8.0"	(Jan 21, 1918)	2	1	1	1	3

## TEMPERATURE AND PRECIPITATION

From Durant Cooperative Observer Station (342678); August 1901 – December 2003

Latitude: 3401N Longitude: 09623W Elevation: 679 ft

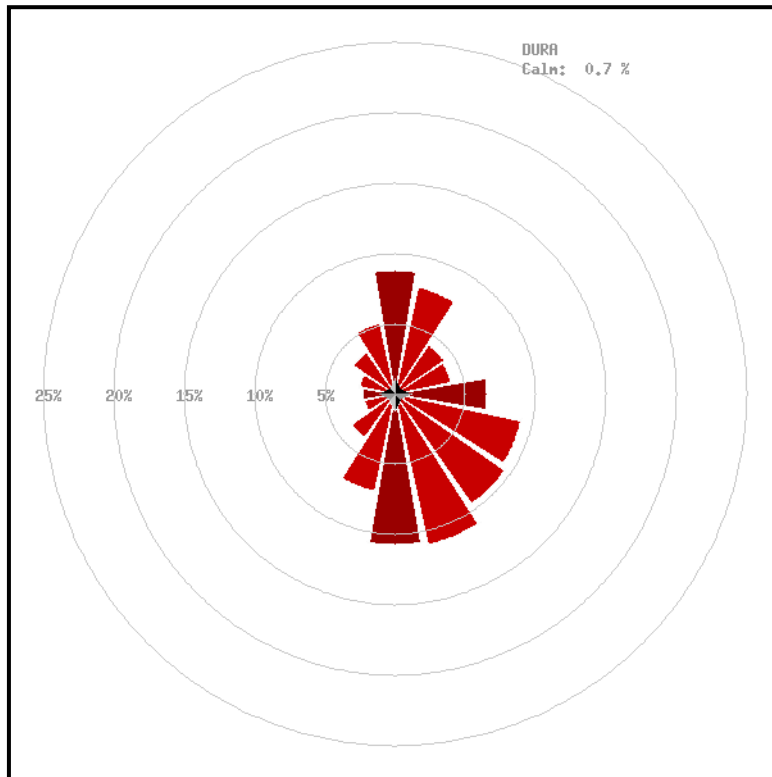
Exceedence values (2 in 10 years)				
Month:	Maximum Temperature Higher Than:	Minimum Temperature Lower Than:	Precipitation Less Than:	Precipitation More Than:
January	77	4	0.79	3.19
February	81	10	1.09	4.29
March	88	19	1.50	4.70
April	91	30	2.41	7.02
May	95	40	3.07	8.33
June	102	51	1.96	6.11
July	107	58	0.65	4.62
August	107	57	0.72	4.04
September	102	43	1.31	6.29
October	96	31	1.09	6.26
November	84	20	0.87	4.59
December	78	10	0.92	4.24
<b>Annual</b>	<b>108</b>	<b>3</b>	<b>32.53</b>	<b>49.39</b>

First Freezing Temperature in Fall			
Probability	24 F or Lower	28 F or Lower	32 F or Lower
1 Year in 10 Earlier Than –	November 10	October 31	October 20
2 Years in 10 Earlier Than –	November 13	November 4	October 24
5 Years in 10 Earlier Than –	November 28	November 15	November 4
Last Freezing Temperature in Spring			
Probability	24 F or Lower	28 F or Lower	32 F or Lower
1 Year in 10 Later Than –	March 22	April 9	April 15
2 Years in 10 Later Than –	March 14	March 28	April 11
5 Years in 10 Later Than –	March 2	March 16	March 30

Number of Days in Growing Season			
Probability	Higher than 24 F	Higher than 28 F	Higher than 32 F
9 Years in 10	244	220	197
8 Years in 10	253	227	201
5 Years in 10	276	242	219
2 Years in 10	298	268	239
1 Year in 10	302	276	251

## WINDS

From Blackwell Mesonet Site (DURA); Jan 1994 – Dec 2001  
 Latitude: 3392N      Longitude: 09632W      Elevation: 656 ft



Wind Roses show the prevailing direction from which the wind is blowing. North is up in the image. The circles show the percentage of time from which the wind is blowing in that direction. For example, Blackwell records a south-southeasterly wind about 11 percent of the time, with northerly winds nearly 9 percent of the time.

The table below shows the percentage of time the wind is blowing from each of the 16-point compass headings, and the percent of time the prevailing wind is recorded in each speed bin.

*Maximum Gust: 59.3 mph*  
*Maximum Sustained: 39.6 mph*  
*Overall Average Speed: 7.8 mph*

DURA	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Totals
Calm																	0.7%
1- 5 mph	1.1	1.6	1.7	1.8	2.1	2.7	2.9	2.2	1.8	1.3	0.9	0.8	0.7	0.8	0.7	0.8	23.9%
6-10 mph	3.4	3.7	2.1	1.9	3.5	5.0	5.2	6.0	4.4	2.5	1.4	0.9	0.9	1.2	1.5	2.1	45.7%
11-15 mph	2.7	1.8	0.4	0.3	0.8	1.3	1.4	2.4	3.4	2.3	1.0	0.4	0.4	0.4	0.8	1.5	21.5%
16-20 mph	1.3	0.6	0.0	0.1	0.1	0.1	0.1	0.4	1.1	0.9	0.4	0.2	0.2	0.2	0.4	0.7	6.8%
21-25 mph	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2%
26-30 mph	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
31-35 mph	0.0	0.0		0.0	0.0		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
35+ mph								0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Totals</b>	<b>8.8</b>	<b>7.8</b>	<b>4.3</b>	<b>4.1</b>	<b>6.6</b>	<b>9.2</b>	<b>9.6</b>	<b>11.0</b>	<b>10.8</b>	<b>7.1</b>	<b>3.8</b>	<b>2.3</b>	<b>2.4</b>	<b>2.7</b>	<b>3.7</b>	<b>5.2</b>	<b>100.0%</b>
DURA	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
Max Gust	59	46	47	42	49	43	49	49	42	50	56	55	59	54	59	46	
Max 5 Min	32	30	29	31	34	29	35	35	29	32	39	35	36	40	33	31	
<b>Avg Speed</b>	<b>9.9</b>	<b>8.1</b>	<b>5.7</b>	<b>5.5</b>	<b>6.2</b>	<b>6.5</b>	<b>6.4</b>	<b>7.5</b>	<b>9.0</b>	<b>9.2</b>	<b>8.4</b>	<b>7.5</b>	<b>7.9</b>	<b>7.5</b>	<b>9.1</b>	<b>9.5</b>	

Due to rounding, column and row totals may not sum to exactly 100.0%.

## HUMIDITY

From Blackwell Mesonet Site (DURA); Jan 1994 – Dec 2003

Latitude: 3392N      Longitude: 09632W      Elevation: 656 ft

Mean Monthly Humidity and Moisture					
	Daily Maximum Relative Humidity	Daily Minimum Relative Humidity	Daily Average Relative Humidity	Daily Average Dewpoint (°F)	Daily Average Vapor Deficit
January	89	48	69	32	3.3
February	87	45	66	36	4.8
March	88	46	68	42	5.3
April	89	47	68	51	7.1
May	93	56	76	63	7.2
June	94	54	76	69	9.0
July	90	46	69	71	14.5
August	90	42	67	69	15.5
September	91	47	71	63	10.3
October	92	48	72	54	6.9
November	91	50	72	44	4.7
December	89	49	72	35	3.4
<b>Annual</b>	<b>90</b>	<b>48</b>	<b>70</b>	<b>52</b>	<b>7.7</b>

Vapor pressure is given in millibars.

## SOIL TEMPERATURES

From Blackwell Mesonet Site (DURA); Jan 1994 – Dec 2003

Latitude: 3392N      Longitude: 09632W      Elevation: 656 ft

Soil Temperatures at 10 cm (4-inch) depth				
	Average Temperature beneath sod	Average Temperature beneath bare soil	Average Daily Max Temperature	Average Daily Min Temperature
January	45	43	48	39
February	48	47	53	43
March	52	53	60	48
April	60	64	72	58
May	69	74	82	68
June	76	83	91	76
July	81	88	97	81
August	81	88	97	80
September	76	78	86	72
October	67	67	74	61
November	57	55	60	50
December	48	45	50	41
<b>Annual</b>	<b>63</b>	<b>66</b>	<b>73</b>	<b>60</b>

Average daily maximum and minimum temperatures based on bare soil.

## **TORNADOES**

Significant Tornadoes (F2 intensity or greater) affecting Bryan County, 1880 – 2003. Source: *Significant Tornadoes, 1880-1989: Volume I* and National Weather Service, Norman office.

<b>Date</b>	<b>Path</b>	<b>Deaths</b>	<b>Injuries</b>	<b>Rating</b>	<b>Counties Affected</b>
December 17, 1887	25 miles	6	50	F3	Johnston, Bryan
April 10, 1892	unknown	0	8	F2	Bryan
April 28, 1893	10 miles	0	4	F3	Grayson (TX), Marshall, Bryan
April 12, 1896	unknown	0	unknown	F2	Bryan
May 15, 1896	18 miles	0	35	F2	Grayson (TX), Bryan
May 15, 1896	unknown	4	unknown	F2	Bryan
March 27, 1898	3 miles	0	1	F2	Grayson (TX), Bryan
May 20, 1916	12 miles	9	52	F4	Grayson (TX), Bryan
April 9, 1919	25 miles	8	50	F4	Grayson, Fannin (TX), Bryan
April 9, 1919	unknown	1	3	F2	Bryan
April 9, 1919	10 miles	9	35	F3	Bryan
April 9, 1919	unknown	0	5	F2	Bryan
April 8, 1922	unknown	0	0	F2	Bryan
April 13, 1927	2 miles	0	3	F2	Bryan
April 20, 1927	2 miles	0	1	F2	Bryan
May 5, 1930	unknown	0	0	F2	Bryan
May 9, 1930	unknown	0	0	F2	Bryan
October 15, 1933	1 mile	0	0	F2	Bryan
March 28, 1938	1 mile	0	0	F2	Bryan
April 8, 1943	0.5 miles	0	2	F2	Bryan
March 16, 1945	8 miles	1	6	F3	Bryan
April 30, 1949	35 miles	1	7	F3	Bryan, Choctaw
May 9, 1951	16 miles	0	0	F2	Marshall, Bryan, Johnston
April 2, 1957	15 miles	3	3	F4	Bryan
October 4, 1959	12 miles	0	2	F2	Fannin (TX), .Bryan
April 2, 1964	15 miles	0	1	F2	Marshall, Bryan
March 12, 1971	40 miles	0	4	F3	Marshall, Bryan
April 2, 1980	4 miles	0	0	F2	Bryan
May 23, 1981	8 miles	0	0	F3	Bryan
April 2, 1982	0.5 miles	0	1	F2	Bryan
April 2, 1982	0.5 miles	0	0	F2	Bryan
March 21, 1991	5 miles	0	0	F2	Bryan
May 11, 1992	1 mile	0	0	F2	Bryan

### ***About the Data:***

The temperature and precipitation data from Durant USDA are from the National Weather Service Cooperative Observer station, which records daily maximum and minimum temperatures, precipitation, and snowfall. The station has been in operation since 1901, yielding a 103-year series of data. Extremes, frost and freeze data, and growing season lengths were determined using the entire 103-year series. The means for temperature, precipitation, and snowfall were determined using a subset of the series, from 1971-2000, corresponding with official national standards set by the National Climatic Data Center.

Wind and humidity data are compiled from the Oklahoma Mesonet station at Durant (6 miles south-southeast of town), which has been operational since 1994. The Durant Mesonet site was chosen because it is the only Mesonet site in Bryan County. The Oklahoma Mesonet is a cooperative project between Oklahoma State University and The University of Oklahoma. Data are collected and archived at the Oklahoma Climatological Survey. The Mesonet records a variety of weather information at 5-minute intervals throughout the day, with at least one reporting station in every county in Oklahoma. For more information on the Mesonet, see <http://www.mesonet.org/>.

Solar radiation (sunshine) data were obtained from the *Climatic Atlas of the United States*, U.S. Department of Commerce, 1968. Severe storm information is available from the National Climatic Data Center, <http://www.ncdc.noaa.gov/>, under Weather/Climate Events: Climatology & Extreme Events, U.S. Storm Events Database. The best site for online county tornado information for Oklahoma is through the National Weather Service, Norman Office, <http://www.srh.noaa.gov/oun/tornadodata/>.

The tables and summary were prepared by the Oklahoma Climatological Survey. For more information, please contact OCS at 405-325-2541. Many climate summary products are available on the worldwide web at <http://www.ocs.ou.edu/>.

### ***Need Additional Information?***

If you cannot find what you need here, or want some help interpreting what this means for your particular needs, please contact:

The Oklahoma Climatological Survey  
100 E. Boyd Street, Suite 1210  
Norman, OK 73019-1012  
Phone: 405-325-2541  
E-mail: [ocs@ou.edu](mailto:ocs@ou.edu)

In addition to maintaining records of all weather and climate information for Oklahoma, OCS has a staff of climatologists who specialize in tailoring information for particular needs. Whether you want to know how dry it has been or are planning a construction project, OCS can help.